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d his full

     (FILE 'HOME' ENTERED AT 12:41:00 ON 16 JAN 2004)

     FILE 'SCISEARCH' ENTERED AT 12:41:41 ON 16 JAN 2004
L1             0 SEA ABB=ON  PLU=ON  SHORROSH BS/RAU (S)18/RVL (S)151/RPG
L2             0 SEA ABB=ON  PLU=ON  SHORROSH B/RAU (S)18/RVL (S)151/RPG

     FILE 'AGRICOLA, BIOSIS, CAPLUS, CABA' ENTERED AT 12:44:59 ON 16 JAN 2004
L3          4990 SEA ABB=ON  PLU=ON  ALPHA GLOBULIN
L4       1124506 SEA ABB=ON  PLU=ON  (TRANSFORM? OR TRANSGEN? OR AGROBACTER? OR
                 BIOLISTIC OR BOMBARD?)
L5       5669764 SEA ABB=ON  PLU=ON  (PLANT OR ARABIDOPSIS OR CORN OR MAIZE OR
L6             9 SEA ABB=ON  PLU=ON  L3(P) L4(P) L5
L7             4 DUP REM L6 (5 DUPLICATES REMOVED)
                 D 1-4 TI
                 D 2 IBIB ABS
L8           423 SEA ABB=ON  PLU=ON  (JUNG, RUDOLF OR JUNG, R OR JUNG R)/AU
L9             4 SEA ABB=ON  PLU=ON  L8 AND L3
L10            1 DUP REM L9 (3 DUPLICATES REMOVED)
                 D IBIB ABS


     FILE HOME

     FILE SCISEARCH
     FILE COVERS 1974 TO 12 Jan 2004 (20040112/ED)

     FILE AGRICOLA

     FILE COVERS 1970 TO 15 Dec 2003 (20031215/ED)

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     FILE BIOSIS
     FILE COVERS 1969 TO DATE.
     CAS REGISTRY NUMBERS AND CHEMICAL NAMES (CNs) PRESENT
     FROM JANUARY 1969 TO DATE.

     RECORDS LAST ADDED: 14 January 2004 (20040114/ED)

     FILE RELOADED: 19 October 2003.

     FILE CAPLUS

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     FILE COVERS 1907 - 16 Jan 2004  VOL 140 ISS 4
     FILE LAST UPDATED: 15 Jan 2004  (20040115/ED)
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FILE CABA
FILE COVERS 1973 TO 12 Jan 2004 (20040112/ED)

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The CABA file was reloaded 7 December 2003. Enter HELP RLOAD for details.

```
=> s (jung, rudolf or jung, r. or jung r)/au
L1          423 (JUNG, RUDOLF OR JUNG, R. OR JUNG R)/AU

=> s globulin
L2       166653 GLOBULIN

=> s l1 and l2
L3           46 L1 AND L2

=> dup rem l3
PROCESSING COMPLETED FOR L3
L4            21 DUP REM L3 (25 DUPLICATES REMOVED)

=> d 1-21 ti

L4   ANSWER 1 OF 21  CAPLUS  COPYRIGHT 2004 ACS on STN
TI   Methods of increasing accumulation of foreign proteins in plant storage
     organs by lowering vacuolar processing proteinase levels

L4   ANSWER 2 OF 21  AGRICOLA  Compiled and distributed by the National
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     (2004) on STN                                          DUPLICATE 1
TI   Redundant proteolytic mechanisms process seed storage proteins in the
     absence of seed-type members of the vacuolar processing enzyme family of
     cysteine proteases.

L4   ANSWER 3 OF 21  CAPLUS  COPYRIGHT 2004 ACS on STN
TI   Maize opaque endosperm mutations create extensive changes in patterns of
     gene expression

L4   ANSWER 4 OF 21  BIOSIS  COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
     DUPLICATE 2
TI   Processing and assembly in vitro of engineered soybean beta-conglycinin
     subunits with the asparagine-glycine proteolytic cleavage site of 11S
     globulins.

L4   ANSWER 5 OF 21  CAPLUS  COPYRIGHT 2004 ACS on STN
TI   Hypoallergenic transgenic soybeans with selectively suppressed-vacuolar
     allergens

L4   ANSWER 6 OF 21  AGRICOLA  Compiled and distributed by the National
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     (2004) on STN                                          DUPLICATE 3
TI   Genomics analysis of genes expressed in maize endosperm identifies novel
     seed proteins and clarifies patterns of zein gene expression.

L4   ANSWER 7 OF 21  BIOSIS  COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
     DUPLICATE 4
TI   Expression of human milk fat globulin proteins in cells of
     haemopoietic origin.

L4   ANSWER 8 OF 21  AGRICOLA  Compiled and distributed by the National
     Agricultural Library of the Department of Agriculture of the United States
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     (2004) on STN                                          DUPLICATE 5
TI   The role of proteolysis in the processing and assembly of 11S seed
     globulins.

L4   ANSWER 9 OF 21  CAPLUS  COPYRIGHT 2004 ACS on STN
TI   Alteration of amino acid composition of seed by altering levels of
     expression of endogenous genes and amino acid composition of gene products
```

L4 ANSWER 10 OF 21 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved. (2004) on STN DUPLICATE 6
TI Role of the sulfhydryl redox state and disulfide bonds in processing and assembly of 11S seed **globulins**.

L4 ANSWER 11 OF 21 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved. (2004) on STN DUPLICATE 7
TI Adenosine 5'-triphosphate is required for the assembly of 11A seed proglobulins in vitro.

L4 ANSWER 12 OF 21 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
TI An Asn-specific cysteine endopeptidase processes prolegumin and transforms it into mature legumin hexamers for vacuolar deposition in storage tissue cells of legume seeds.

L4 ANSWER 13 OF 21 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN DUPLICATE 8
TI Synthesis and assembly of 11S **globulins**.

L4 ANSWER 14 OF 21 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 9
TI Stable expression of vicilin from Vicia faba with eight additional single methionine residues but failure of accumulation of legumin with an attached peptide segment in tobacco seeds

L4 ANSWER 15 OF 21 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
TI Assembly and processing of 11S **globulins**.

L4 ANSWER 16 OF 21 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved. (2004) on STN DUPLICATE 10
TI Site-specific limited proteolysis of legumin chloramphenicol acetyl transferase fusions in vitro and in transgenic tobacco seeds.

L4 ANSWER 17 OF 21 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved. (2004) on STN DUPLICATE 11
TI A protease responsible for post-translational cleavage of a conserved Asn-Gly linkage in glycinin, the major seed storage protein of soybean.

L4 ANSWER 18 OF 21 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
TI ARE SS-BRIDGE FORMATION AND ALPHA-BETA-CHAIN CLEAVAGE PREREQUISITES FOR 12S **GLOBULIN** PROPOLYPEPTIDE TRANSFER INTO PROTEIN BODIES OF VICIA-FABA SEEDS.

L4 ANSWER 19 OF 21 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
TI THE STRUCTURAL BASIS OF **GLOBULIN** TARGETING TO PROTEIN BODIES IN COTYLEDON CELLS OF DEVELOPING VICIA-FABA SEEDS.

L4 ANSWER 20 OF 21 CAPLUS COPYRIGHT 2004 ACS on STN
TI Construction of new plant genes and their transfer into plants

L4 ANSWER 21 OF 21 CABA COPYRIGHT 2004 CABI on STN
TI Molecular characterization of Vicia faba storage protein specific DNA.

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1          423 S (JUNG, RUDOLF OR JUNG, R. OR JUNG R)/AU
L2      166653 S GLOBULIN
L3          46 S L1 AND L2
L4          21 DUP REM L3 (25 DUPLICATES REMOVED)

=> s 18kD
L5          53 18KD

=> s l5 and l2
L6           1 L5 AND L2

=> d ibib abs

L6   ANSWER 1 OF 1  CAPLUS  COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER:        1994:240163  CAPLUS
DOCUMENT NUMBER:         120:240163
TITLE:                   Purification and analyses of cockatiel seed proteins
AUTHOR(S):               Xu, Lei; Hou, Hao
CORPORATE SOURCE:        Lab. Mol. Biol., Northwest. Agric. Univ., Xianyang,
                         712100, Peop. Rep. China
SOURCE:                  Tianran Chanwu Yanjiu Yu Kaifa (1993), 5(2), 53-8
                         CODEN: TCYKE5; ISSN: 1001-6880
DOCUMENT TYPE:           Journal
LANGUAGE:                Chinese
AB   The storage protein from cockatiel seed which dried and defated were
     analyzed by SDS-PAGE Lowry method and Kjeldal method.  The protein content
     was high (26.04%) and contained albumin : globulin : prolamin :
     gluten (11.5 : 72 : 4.5 : 12).  The major protein compn. of cockatiel seed
     is polypeptides, MW of 20KD.  Two-dimensional SDS-PAGE showed the presence
     of polypeptides of mol. wts. 58, 37, 20, 39, 24.5 and 18KD.  The
     globulin polypeptide, MW of 23KD, is sensitive to heat
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→ only ref of globulin + 18KD isolated

* the 18KD globulin is nearly found